

TO AULTO WHOM THESE PRESENTS SHALL COME

Pioneer Hi-Bred International, Inc.

MICES, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE HT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR TING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE URPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'93B54'

In Testimony Therest, I have hereunto set my hand and caused the seal of the Hunt Unriving Protection Office to be affixed at the City of Washington, D.C. this twenty-fourth day of April, in the year of our Lord two thousand one.

alan R. Port

Scling Commissioner Plant Variety Protection Office Agricultural Marketing Service

griculture

REPRODUCE LOCALLY. Include form number and date on a	all reproductions.			FORM APPROVE	D - OMB NO. 0581-0055		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE			The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a). Application is required in order to determine if a plant variety protection				
APPLICATION FOR PLANT VARIETY PROTECTIO (Instructions and information collection burden states		Ī.		C. 2421). Information is held confidential			
NAME OF APPLICANT(S) (as it is to appear on the Certificate)		-	2. EXPERIMENTAL NUMBER	3, VARIETY NA	ME		
Pioneer Hi-Bred International, Inc.							
***				93B54			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and	Country)		5. TELEPHONE (include area code)	FOR C	FFICIAL USE ONLY		
•			515.050.0500	PVPO NUMBER	Un 043		
7300 NW 62nd Ave			515-270-3582	Security of the security of th	opani esempo di 1909, di 180		
P.O. Box 1004			6. FAX (include area code)	FIDATE			
Johnston, Iowa 50131-1004			515-253-2288	ii k	Lizi Fac		
				N 10			
7. GENUS AND SPECIES NAME	8. FAMILY NAME	(Botanica	n)	FILING AN	D EXAMINATION FEE:		
Glycine max L. Leg				[t ∂	450		
9. CROP KIND NAME (Common name)				S DATE	staaloo		
Soybean				R U	DITAL H		
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGA	NIZATION (corporation, p	partnership, as	sociation, etc.) (Common name)	CERTIFICA	TION FEE:		
Corporation				₩ 433	20 T		
11. IF INCORPORATED, GIVE STATE OF INCORPORATION			12. DATE OF INCORPORATION	E DATÉ			
lowa			May 6, 1926	13/2	ا اول مار		
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO	SERVE IN THIS APPL	ICATION AN	D RECEIVE ALL PAPERS	14. TELEPHON	E (include area code)		
John Grace	Jean B	Fromert (Co	ру)	515-270-	3582		
			W 62nd Ave. 15. FAX (include area c		clude area code)		
P.O. Box 1004 P.O. B Johnston, Iowa 50131-1004 Johnsto			00 wa 50131-1000 515-253-2288				
				313-233-	2200		
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Fo	ollow instructions on r	everse)					
 a. Exhibit A. Origin and Breeding History of the Variety b. Exhibit B. Statement of Distinctness 							
c. Exhibit C. Objective Description of the Variety							
d. Exhibit D. Additional Description of the Variety							
e. 🗹 Exhibit E. Statement of the Basis of the Applicant's Ownersh	-						
f. Voucher Sample (2,600 viable untreated seeds or, for tuber p.				aintained in a publ	ic repository)		
 g. Filing and Examination Fee (\$2450), made payable to "Treasu 17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOL 		-	O PVPO)	- 02(a) af the Diam	4 Mariate Duntantine Anti-		
YES If "yes," answer items 18 and 19 below)	NO		o to item (20)	n ostaj ot tne Plan	t variety Protection Activ		
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMI	TED AS TO NUMBER (OF 19. I	"YES" TO ITEM 18, WHICH CLASSES	OF PRODUCTION B	EYOND BREEDER SEED?		
GENERATIONS? YES NO			FOUNDATION REGISTE	RED CER	TIFIED		
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEE	N RELEASED, USED, C	OFFERED FO	OR SALE, OR MARKETED IN THE U.S. O	R OTHER COUNTR	IES?		
YES (If "yes," give names of countries and dates) U.S. 2/15/99	NO				•		
 The applicant(s) declare that a viable sample of basic seed of the varie applicable, or for a tuber propagated variety a tissue culture will be de 					such requiations as may be		
The undersioned applicant(s) islare) the owner(s) of this sexually repro-				new. distinct. unif	orm, and stable as required		
Section 41, and is entitled to protection under the provisions of Section							
Applicant(s) is(are) informed that false representation herein can jeopa	ardize protection and r		E OF APPLICANT (Owner(s))				
SIGNATURE OF APPLICANT (Owner(s))		SIGNATOR	E OF AFFEIGANI (Owner(s))				
Name (Please print or type)		Name (P	ease print or type)				
D. John Grace III							
CAPACITY OR TITLE DAT	E/_/_	CAPACITY	OR TITLE		DATE		
Soybean Research Coordinator	15/99						
SD-470 (04-95) (Previous editions are to be destroyed)			(See reverse for instructions and Information collection burden statemen				

) }

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 93B54

Variety 93B54 evolved from a 1993 cross of DSR373*(DSR373*W20).

It is an F2-derived variety which was advanced to the F2 generation by modified single seed descent. The F3 progeny row of 93B54 was grown in the summer of 1994 as a plant row. Subsequently, 93B54 has undergone three years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of sulfonylurea (STS) herbicide tolerance, soybean cyst nematode resistance and yield performance, variety 93B54 was assigned a commercial number.

Forty acres of 93B54 (breeders seed) were grown in the winter of 1996-97. One thousand three hundred fifty-six acres of parent seedstock (foundation seed equivalent) were grown in the summer of 1998 and approximately 60,000 bushels harvested.

Exhibit B. Statement of Distinctness

Soybean Variety 93B54

Variety 93B54 is similar to Asgrow A3304, DSR310STS, DSR350STS, DSR370STS and 9323. These varieties have white flowers, tawny pubescence, tan pod wall and yellow seeds with black hila. Additionally, these varieties are resistant to sulfonylurea (STS) herbicides. However, 93B54 is resistant to races 3 and 14 of soybean cyst nematode whereas these similar varieties are susceptible. Furthermore, 93B54 differs from these varieties at isozyme loci IDH1 as illustrated in Table 1.

Table 1. Isozyme comparisons between Pioneer variety 93B54 and competitor varieties for PVP application.

Variety	ACO3	ACP	ENP	IDH4	IDH2	PGM1	PHI1
Pioneer 93B54	_	٧	٨	1	 	1	_
Asgrow A3304	_	A	∢	2	-	_	1
Dairlyland DSR310STS	_	4	A	C)	-	_	-
Dairyland DSR350STS	_	⋖	A	CX	-	-	1
Dairyland DSR370STS	1	¥	A	cz.	1	_	_
Pioneer 9323	1	∢	٧	2	1	γ	1

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SEED DIVISION - PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Pioneer Hi-Bred International, Inc.		93B54
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)		FOR OFFICIAL USE ONLY
7300 N.W. 62nd Ave., P.O. Box 1004		PVPO NUMBER () () () () () () () () () ()
Johnston, IA 50131-1004	<u></u>	
Choose the appropriate response which characterizes the variety in the number of boxes provided, place a zero on the first box when nuradequate soybean variety description. Other characters should be defined to the characters of the characters.	nber is 9 or less (e.g., 👩 🧿). Sta	rred characters 🛨 are considered fundamental to an
1. SEED SHAPE:		
[1]	W T	
1 = Spherical (L/W, L/T, and T/W ratios = < 1. 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)		al Flattened (L/W ratio > 1.2; L/T ratio = < 1.2) e Flattened (L/T ratio > 1.2; T/W > 1.2)
★ 2. SEED COAT COLOR: (Mature Seed)		
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (Sp	ecify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		
1 = Dull ('Corsoy 79'; 'Braxton')	2 = Shiny ('Nebsoy'; 'Ga	asoy 17')
★ 4. SEED SIZE: (Mature Seed)		
1 6 Grams per 100 seeds		
★ 5. HILUM COLOR: (Mature Seed)		
6 1 = Buff 2 = Yellow 3 = Brown 4 = Gray	5 = Imperfect Black 6 = B	clack 7 = Other (Specify)
★ 6. COTYLEDON COLOR: (Mature Seed)		
1 = Yellow 2 = Green		
★ 7. SEED PROTEIN PEROXIDASE ACTIVITY:		
2 1 = Low 2 = High		
★ 8. SEED PROTEIN ELECTROPHORETIC BAND:		
1 = Type A (SP1 a) 2 = Typ	pe B (SP1 b)	
★ 9. HYPOCOTYL COLOR:		
1 = Green only ('Evans'; 'Davis')	2 = Green with bron	ze band below cotyledons ('Woodworth'; 'Tracy')
3 = Light Purple below cotyledons ('Beeson	•	
4 = Dark Purple extending to unifoliate leav	es ('Hodgson'; 'Coker Hamptor	1 266A')
★ 10. LEAFLET SHAPE:		
3 1 = Lanceolate 2 = Oval 3 =	Ovate 4 = Other (Speci	ify)
FORM LMGS-470-57 (6-83) (Edition of 2-82 is obsolete	.)	Page 1 of 4

	The second secon	
	11. LEAFLET SIZE:	
	1 7	= Medium ('Corsoy 79'; 'Gasoy 17')
	3 = Large ('Crawford'; 'Tracy')	
	12. LEAF COLOR:	
	3 1 = Light Green ('Weber'; 'York') 2 3 = Dark Green ('Gnome'; 'Tracy')	= Medium Green ('Corsoy 79'; 'Braxton')
*	13. FLOWER COLOR:	
	1 1 = White 2 = Purple 3	= White with purple throat
*	14. POD COLOR:	
		= Black
*	15. PLANT PUBESCENCE COLOR:	
	2 1 = Gray 2 = Brown (Tawny)	
	16. PLANT TYPES:	
	2 1 = Slender ('Essex'; 'Amsoy 71') 2 3 = Bushy ('Gnome'; 'Govan')	= Intermediate ('Amcor'; 'Braxton')
*	17. PLANT HABIT:	
	3 1 = Determinate ('Gnome'; 'Braxton')	2 = Semi-Determinate ('Will')
	3 = Indeterminate ('Nebsoy'; 'Improved Pel	
*	40 MATURITY OPEN	
^ r		
L	1-000 2-00 3-0 4-	
	9 = VI $10 = VII$ $11 = VIII$ 12	$= IX \qquad 13 = X$
_	, , <u>, , , , , , , , , , , , , , , , , </u>	A1
*	, , <u>, , , , , , , , , , , , , , , , , </u>	
*		
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus	ceptible; 2 = Resistant)
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus BACTERIAL DISEASES:	ceptible; 2 = Resistant) li var. sojensis)
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus BACTERIAL DISEASES: ** ** ** ** ** ** ** ** **	ceptible; 2 = Resistant) li var. sojensis)
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus BACTERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseo Bacterial Blight (Pseudomonas glycinea)	ceptible; 2 = Resistant) li var. sojensis)
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas phaseo ★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci)	ceptible; 2 = Resistant) li var. sojensis)
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas phaseo ★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: ★ 1 Brown Spot (Septoria glycines)	ceptible; 2 = Resistant) li var. sojensis)
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas phaseo ★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci) FUNGAL DISEASES:	ceptible; 2 = Resistant) li var. sojensis)
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas phaseo ★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: ★ 1 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) ★ 0 Race 1 0 Race 2 0 Race	ceptible; 2 = Resistant) li var. sojensis)
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas phaseo) ★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: ★ 1 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) ★ 0 Race 1 0 Race 2 0 Race O Target Spot (Corynespora cassiicola)	ceptible; 2 = Resistant) li var. sojensis)
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas phaseo ★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: ★ 1 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) ★ 0 Race 1 0 Race 2 0 Race 0 Target Spot (Corynespora cassiicola) 0 Downy Mildew (Peronospora trifoliorum value)	ceptible; 2 = Resistant) li var. sojensis) e 3
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas phaseo ★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: ★ 1 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) ★ 0 Race 1 0 Race 2 0 Race 0 Target Spot (Corynespora cassiicola)	ceptible; 2 = Resistant) li var. sojensis) e 3
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas phaseo ★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: ★ 1 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) ★ 0 Race 1 0 Race 2 0 Race 0 Target Spot (Corynespora cassiicola) 0 Downy Mildew (Peronospora trifoliorum value)	ceptible; 2 = Resistant) li var. sojensis) e 3

Variety Name 93	B54	
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19. DISEASES REACTION:	(Enter 0 = Not Tested; 1 = Susceptible; 2	= Resistant) (Continued)						
FUNGAL DISEASES: (C	continued)	20	0000043					
★ 1 Pod and Stem Bligh	t (Diaporthe phaseolorum var; sojae)		,					
0 Purple Seed Stain	(Cercospora kikuchii)							
1 Rhizoctonia Root Re	ot (Rhizoctonia solani)							
Phytophthora Rot	(Phytophthora megasperma var. sojae)							
★ 1 Race 1 0 Ra	ce 2 0 Race 3 0 Race 4 0	Race 5 0 Race 6	Race 7					
0 Race 8 0 Ra	ce 9 Other (Specify)	<u> </u>						
VIRAL DISEASES:								
1 Bud Blight (Tobacc	o Ringspot Virus)							
1 Yellow Mosaic (Bea	n Yellow Mosaic Virus)							
★ 1 Cowpea Mosaic (Co	wpea Chlorotic Virus)							
Pod Mottle (Bean Pod Mottle Virus)								
★ 1 Seed Mottle (Soybea	an Mosaic Virus)							
NEMATODE DISEASES:								
Soybean Cyst Nema	ode (Heterodera glycines)		•					
★ 0 Race 1 0 Rac	se 2 2 Race 3 0 Race 4 2	Other (Specify) Race 14						
D Lance Nematode (Ho	Lance Nematode (Hopiolaimus Colombus)							
★ 0 Southern Root Knot	O Southern Root Knot Nematode (Meloidogyne incognita)							
Northern Root Knot Nematode (Meloidogyne Hapla)								
Peanut Root Knot Nematode (Meloidogyne arenaria)								
0 Reniform Nematode	(Rotylenchulus reniformis)							
0 OTHER DISEASE NO								
20. PHYSIOLOGICAL RESPONSES: (ENTER 0 = Not tested, 1 = Susceptible, 2 = Resistant)								
★ 0 Iron Chlorosis on Ca		,						
Other (Specify)								

	FER 0 = Not tested, 1 = Susceptible, 2 = Re	sistant)						
Mexican Dean Deene	(Epilachna Varivestis)							
O Potato Leaf Hopper (Empoasca fabae)							
Other (Specify)								
22. INDICATE WHICH VARIET	Y MOST CLOSELY RESEMBLES THAT SU	BMITTED.						
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY					
Plant Shape	9362	Seed Coat Luster	93B51					
Leaf Shape	9362	Seed Size	9362					
Leaf Color	93B51	Seed shape	93B45					
Leaf Size	93B45	Seedling Pigmentation	93B45					
								

2000000437

Variety Name 93B54

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS	PLANT LODGING	CM PLANT	LEAFL	ET SIZE	SEED CON	TENT	SEED SIZE	NO.
VAINET?	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	G/100 SEED	SEEDS POD
Submitted 93B54	126.4	1.7	89.4			36.6	17.9	16.2	3
Name of Similar Variety 93B51	126.5	2.1	88.6	*		35.7	18.5	14.1	3

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop. Sci., 13: 420-421
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1:1-19



200000043

Exhibit D. Additional Description of the Variety

Soybean Variety 93B54

In Exhibit C we have identified variety 93B54 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 93B54 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 93B54 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

If the maturity groups were divided into tenths, the relative maturity of 93B54 would be 3.5.

U.S. DEPARTMENT OF AGRICULTURE

The following statements are made in accordance with the Privacy Act of

AGRICULTURAL MARKETING SERVICE	1974 (5 U.S.C. 552a) and the Paperwork Re	eduction Act (PRA) of 1995.
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to de certificate is to be issued (7 U.S.C. 24 until certificate is issued (7 U.S.C. 24	21). Information is held confidential
1. Name Of Applicant(s)	2. Temporary Designation Or Experimental Number	3. Variety Name
Pioneer Hi-Bred International, Inc.		93B54
4. Address (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. Telephone (include area code)	6. Fax (include area code)
7300 NW 62nd Ave	515-270-3582	515/253-2288
P.O. Box 1004	7. PVPO Number	30040
Johnston, Iowa 50131-1004	, , , , , , , , , , , , , , , , , , ,	
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, Please explain.	YES NO
9. Is the applicant (individual or company) a U.S. national or U.S. based company if no, give name of country 10. Is the applicant the original owner? YES NO In	f no, please answer one of the following	YES NO
a. If original rights to variety were owned by individual(s)), ls (are) the original owner(s) a U.S. ւ	national(s)?
☐ YES ☐ NO If no, give name of country		
b. If original rights to variety were owned by a company(i	ies), is(are) the original owner(s) a U.S	6. based company?
☑ YES ☐ NO If no, give name of country		
11. Additional explanation on ownership (If needed, use reverse for extra sp	pace):	
PLEASE NOTE:		
Plant variety protection can be afforded only to owners (not licensees) who me	eet one of the following criteria:	
1. If the rights to the variety are owned by the original breeder, that person in	nust he all S national national of a l	IPOV member country or

- If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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SD-470-E

(07-97)

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